

ACTGTCTGGAAC TGGACTGAGTCACCAAAAGGCGAATGGCTTCATCTTATAAAATGTCTGAACAAAGCACA
ACTTCTGAGCACATTACAGAACATGTGATCACCTGATCCTGACTAACCGTTCTGGATTAGAGACAGA
CTCAGTAGCAGAGGAAATGAAGCAGACTGTGGAGGGACAGGGCATACTGCAC TGGCAGCTCCTGA
TACTCGCGGTGATAATACCCACCATTGGTGGGAACATCCTTGATCTGGCTGTTGCACTGGAGAAAAGG
CTGCAGTAGCCTACCAACTACTTTAATGTCCTGGCGATAGCAGATTGCTGGTTGGATTGTTGTGAT
GCCGATTGCCCTCTGACAATCATGTTGAGGCTATATGGCCCTCCCCTGGCCCTGTGCTGCCTGGT
TATTCCCTCGATGTTCTCTTCAACTGCCTCCATCATGCATCTGTGCCATTCCCTGGACCCTATATA
GCCATCAAAAAGCCAATT CAGGCCAATCAGTGCAACACCCGGCTACTGCATT CATCAAGATTACAGTGGT
ATGGTTAATTCAATAGGCATGCCATCCCAGTCCCTATTAAAGGAATCGAGACTGATGTGATTAATCCAC
ACAATGTCACCTGTGAGCTGACAAAGGACCGCTTGGCAGTTTATGGCTTTGGTCACTGGCTGCTTTC
TTCGTACCTCTCACCATCATGGTAGTCACTTACTTCTCACCATTCACACTTACAGAAGAAAGCTTACTT
GGTCAAAAATAAGCCACCTCAACGCCTAACACGGTGGACTGTGCCACAGTTCTTAAGGAAAGACTCAT
CCTTTCATCACAGAAAAGGTGGCAATGCTGGATGGTCTCACAGGGATAAAATTCTACCTAACTCAAGT
GATGAGACACTTATGCGAAGAATGCTCTCAGTTGGAAAAAGATCAGCCCAAACCATTCATGAGCAGAG
AGCCTCGAAGGCCCTTGGAGTCGTGTTTCTGCTTGTGCTTGTGGCCCTTTTATTACAAATC
TAACTTAGCTCTGTGATTCCTGCAATCAGACC ACTCTCAAACACTCCTGGAGATATTGTGTGGATA
GGCTACGTTCTCGGGGGTGAATCCTCTGATCTATACACTCTCAATAAGACATTGGAAAGCATTTGG
CAGGTACATCACCTGCAATTACCGAGCCACAAAGTCAGTAAAGCACTTAGGAAGT TTCCAGTACACTTT
GTTTGGAAATTCAATGGTAGAAA ACTCTAAATTTCACAAAACATGGAATTGAAATGGGATCAACCCCT
GCCATGTACCAGAGCCAATGAGGCTCGATGTTCAACCATTAGTCCTCATCAATCATCCTCGATAC
CCTTCTCACTGAAAACGATGGCGACAAAGCGGAAGAGCAGGT CAGCTACATATTGCAGGAACGGCCGCC
TCATCTTGAGAGAGGGT GATGAGCAGGACGCACGCCACCAGCAGGTTCAAGAGTGA (SEQ ID NO:1)

MASSYKMSEQSTTSEHILQKTCDFHLILTNRSGLETDSVAEEMKQTVEGQGHTVHWALLLAVI IPTIGGN
ILVILAVALEKRLQYATNYFLMSLAIADLLVGLFVMPIALLTIMFEAIWPLPLALCPAWLFLDVLFSTASI
MHLCAISLDRYIAIKKPIQANQCNRTRATAFIKITVVWLISIGIAIPVPIKGIEDVINPHNVTCELT KDRF
GSFMVFGSLA AFFVPLTIMVVTYFLTIHTLQKKAYLVKNKPQRLTRWTPTVFLREDSSFSSPEKVAMLD
GSHRDKILPNSSDETLMRMRSVGKRSQQTISNEQRASKALGVVFFLFLMWCPFFITNLTLALCDSCNQT
TLKTLLEIFVWIGYVSSGVNPLIYTLFNKFREAFGRYITCNYRATSVKALRKFSSTLCFGNSMVENS KF
FTKHGIRNGINPAMYQSPMRLRCSTIQSSSI ILLDTLLTENDGDKAEEQVSYILQERAGLILREGD EQDAR
APWQVQE (SEQ ID NO:2)

FIGURE 1

Underlined = deleted in targeting construct

Bold = sequence flanking Neo insert in targeting construct

ACTGTCTGGAACTGGACTGAGTCACCAAAAGCGAATGGCTTCATCTTATAAAATGTCTG
AACAAAGCACAACTTCTGAGCACATTTACAGAAGACATGTGATCACCTGATCCTGACTA
ACCGTTCTGGATTAGAGACAGACTCAGTAGCAGAGGAAATGAAGCAGACTGTGGAGGGAC
AGGGGCATACAGTGCACTGGCAGCTCTCGTGATAACTCGCGGTGATAATACCACCATTG
GTGGGAACATCCTTGTGATTCTGGCTGGCACTGGAGAAAAGGCTGAGTACGCTACCA
ACTACTTTTAATGTCTT GGCAGATAGCAGATTGCTGGTTGGATTGTTGTGATGCCGA
TTGCCCTCTTGACAATCATGTTGAGGCTATATGGCCCTCCCACTGGCCCTGTGCTCTG
CCTGGTTATTCCCTCGATGTTCTTTCAACTGCCTCCATCATGCATCTGTGCCATT
CCCTGGACCGCTATATAGCCATAAAAGCCAATTCAGGCCAATCAGTGCAACACCCGGG
CTACTGCATTCATCAAGATTACAGTGGTATGGTTAATTCAATAGGCATGCCATCCCAG
TCCCTATTAAAGGAATCGAGACTGATGTGATTAATCCACACAATGTCACCTGTGAGCTGA
CAAAGGACCGCTTGGCAGTTTATGGCTTGGGTCACTGGTGCTTCTCGTACCTC
TCACCCATGGTAGTCACTTACTTCTCACCATTCACACTTACAGAAGAAAGCTTACT
TGGTAAAAATAAGCCACCTCAACGCCTAACACGGTGGACTGTGCCCACAGTTTCTAA
GGGAAGACTCATCCTTTCATCACCAGAAAAGGTGGCAATGCTGGATGGGTCTCACAGGG
ATAAAATTCTACCAACTCAAGTGATGAGACACTTATGCGAAGAATGTCCTCAGTTGAA
AAAGATCAGCCCCAACCAATTCTAATGAGCAGAGAGCCTCGAAGGCCTTGGAGTCGTGT
TTTCCTTTCTGCTTATGTGGTGCCCTTTTATTACAAACTCTAACTTAGCTCTG
GTGATTCCCTGCAATCAGACCACTCTCAAACACTCCTGGAGATATTGTGTTGGATAGGCT
ACGTTCCCTCGGGGGTGAATCCTCTGATCTACACTCTCAATAAGACATTTCGGGAAG
CATTGGCAGGTACATCACTCTCGAATTACCGAGCCACAAAGTCAGTAAAAGCATTAGGA
AGTTTTCCAGTACACTTGTTTGGAAATTCAATGGTAGAAAACTCTAAATTTCACAA
AACATGGATTGCAATGGGATCAACCCCTGCCATGTACCGAGGCCAATGAGGGCTCCGAT
GTTCAACCATTCAAGTCCTCATCAATCATCCCTCGATACCCTTCTCACTGAAAACGATG
GGCGACAAAGCGGAAGAGCAGGTCAGCTACATATTGCAGGAACGGGCCGGCTCATCTTGA
GAGAGGGTGATGAGCAGGACGCACGCGCACCATGGCAGGTTCAAGAGTGA

FIGURE 2A

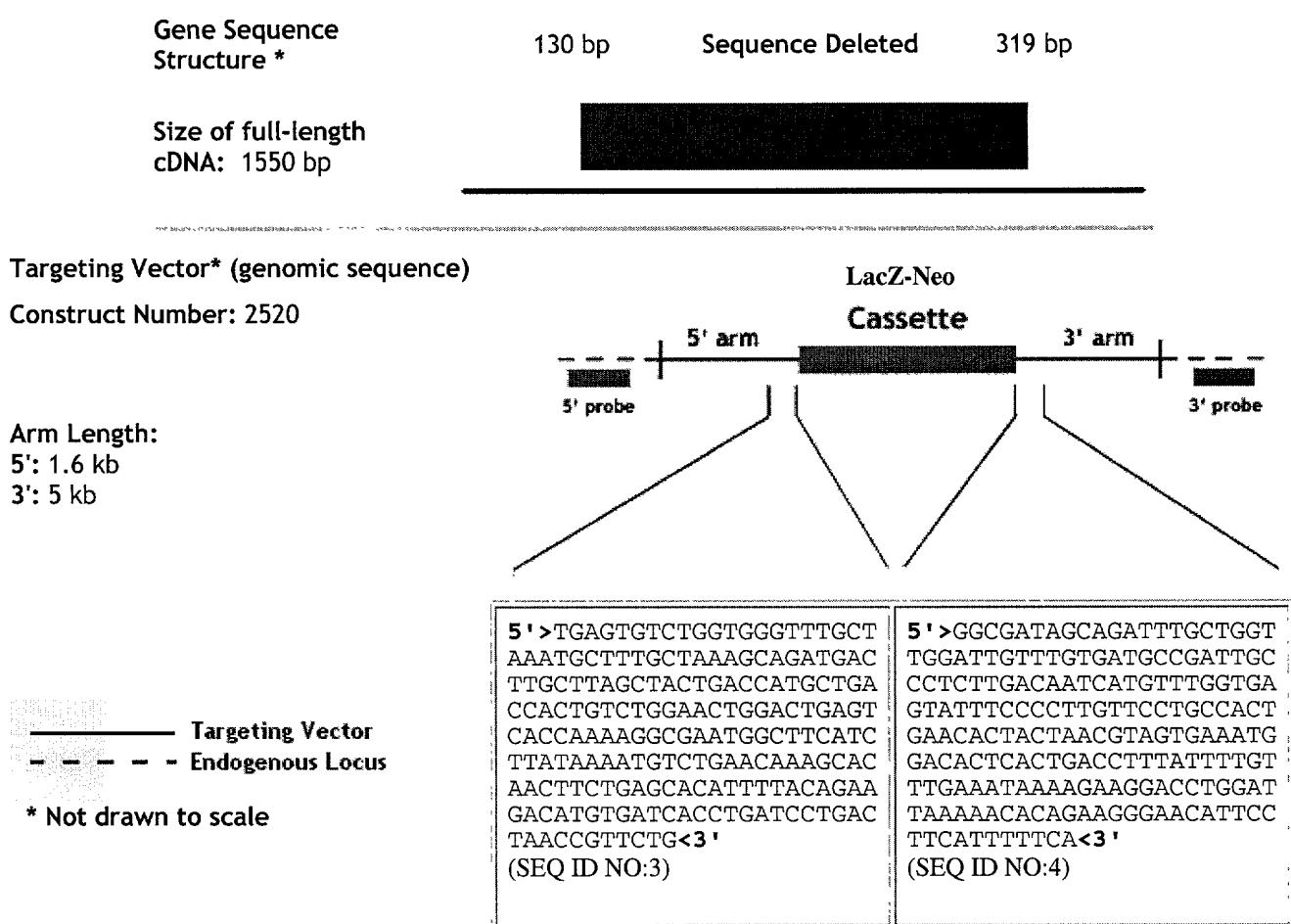


FIGURE 2B